

## Section B

DELIVERABLE DATA AND GSFC RESPONSE

## Change Record Page

CCR #	CCR Date	MOD #	MOD Date	Item Affected
-	-	9	10/04/89	33C, 34C
-	-	55	11/10/93	12A, 13A
-	-	63	05/05/94	12A through 30A, 8B through 14B, 50C through 96C
		72	12/20/94	31A, 32A
		80	09/21/95	31A, 32A
		85	04/08/96	31A
		111	04/20/98	All
		115	06/22/98	26A, 28A, 31A
		116	06/22/98	37A, 38A, 39A, 40
		143	08/05/99	122C
		145	09/13/99	22A, 23A, 41A, 42A, 43A, 44A
		146	09/09/99	2C
1830A	05/22/02	198	09/13/02	1C, 2C, 3C, 4C, 15C, 16C, 21C, 22C, 23C, 27C, 28C, 36C, 37C, 39C, 40C, 126C
1933	06/20/02	245	12/23/02	24C

## Section B

DELIVERABLE DATA AND GSFC RESPONSE

## 1.0 Definition

For purposes of this attachment, the following definitions apply:

1.1 Approval (A) - Documents in this category require receipt by the POES Project within the time specified and written approval prior to contractor implementation. Requirements for resubmission shall be as specified in letter(s) of disapproval. The POES Project shall act on items requiring approval within fourteen days of receipt of the item.

1.2 Review (R) - Documents in this category must be received by the POES Project within the time period specified, and will be subject to evaluation. These documents may be implemented upon issuance unless otherwise noted. However, when an evaluation reveals inadequacies in a document, the contractor shall correct the document as required.

1.3 Information (I) - Documents in this category will be used by the POES Project to determine current program status and progress and for future planning requirements.

1.4 ACA - After contract award.

## 2.0 Mailing and Distribution of Documentation

<u>No. of Copies</u>	<u>Addressee</u>	<u>Code</u>
1 (Original)	Technical Officer	480
Remaining Copies	POES Library	480

## 3.0 Documents to be Submitted:

The following documentation shall be provided in accordance with the specified reference:

## Section B

## Supplies or Services and Prices/Costs

ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Specification Reference</u>	<u>Quantity</u>
Part A - Hardware			
1A	AVHRR/3, S/N A301	S/1.0	1 each
2A	AVHRR/3, S/N A302	S/1.0	1 each
3A	AVHRR/3, S/N A303	S/1.0	1 each
4A	HIRS/3 S/N H301	S/1.0	1 each
5A	HIRS/3 S/N H302	S/1.0	1 each
6A	HIRS/3, S/N H303	S/1.0	1 each
7A	Modify Handling Fixtures/AVHRR/3	A/6.1.8	2 each
8A	Modify Handling Fixture/HIRS/3	H/6.1.0	1 each
9A	Convertible High/Low Cooler Dust Covers/AVHRR/3	A/6.1.14	7 each
10A	Convertible High/Low Cooler Dust Covers/HIRS/3/4	H/6.1.16	7 each
11A	Upgrade or Replacement of GSE	A/9.1; H/11	Lot
12A	AVHRR/3, Channel 4 Spare Detectors	7.1.2.5	3
13A	AVHRR/3, Channel 5 Spare Detectors	7.1.2.6	1
14A	AVHRR/3 S/N A304	S/1.0	1 each
15A	AVHRR/3 S/N A305	S/1.0	1 each
16A	AVHRR/3 S/N A306	S/1.0	1 each
17A	AVHRR/3 S/N A307	S/1.0	1 each
18A	HIRS/4 S/N H304	S/1.0	1 each
19A	HIRS/4 S/N H305	S/1.0	1 each
20A	HIRS/4 S/N H306	S/1.0	1 each

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## Supplies or Services and Prices/Costs

ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Specification Reference</u>	<u>Quantity</u>
21A	HIRS/4 S/N H307	S/1.0	1 each
22A	NEW Handling & Lifting Fixtures/AVHRR/3 H/6.1.8		2 each
23A	NEW Handling & Lifting Fixtures/HIRS/4 H/6.1.0		2 each
24A	Deleted		
25A	Deleted		
26A	METOP Electrical Ground Support Equipment for AVHRR/3 and HIRS/4 (items TBD)	S/8.2, 9.2	Lot
27A	AVHRR/3/HIRS/4 Bench Test Cooler Units	S/8.2.2, S/9.2.2	1 each
28A	One existing AVHRR/3 Portable Test Unit One existing HIRS/4 Portable Test Unit Modified to Operate on Commercial European Power	S/8.2.2.2 S/9.2.2.2	1 each
29A	HIRS/3/4 Engineering Test Model (ETM)	S/9.3	1 each
30A	AVHRR/3, HIRS/4 Drill Jigs	A/6.1.18.2, H/6.2.3	1 each
31A	Deleted		
32A	AVHRR/3, HIRS/4 Vacuum Test Targets	9.1.9.1	1 set
33A	HIRS/3/4 Critical Spare Assemblies:	S/11	
	8129769G2 Scanner Assembly		1 each
	8166195G1 Radiant Cooler Assembly		1 each
	8129795G3 Filter/Chopper Assembly		1 each
	8166212G1 Motor Power Supply		1 each
	8122812G2 Telemetry Multiplex Assembly		1 each
	8129807G2 Interface Logic #1 Assembly		1 each
	8129912G1 LW Memory/Processor Assembly		1 each
34A	AVHRR/3/Critical Spare Assemblies:	S/11	
	8122543G1 Radiant Cooler Assembly		1 each
	8009201G2 Scanner Assembly		1 each
	8150169G1 Detector Translator Assembly		1 each
	8150169G2 Detector Translator Assembly		1 each

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ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Specification Reference</u>	<u>Quantity</u>
8150169G3	Detector Translator Assembly		1 each

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## Supplies or Services and Prices/Costs

ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Specification Reference</u>	<u>Quantity</u>
	8150612G1 Power Converter Module Assembly		1 each
	8150426G2 Channel 1,2,3A Preamplifiers		1 each
	8008256-1 Transformer Motor Power Supply		1 each
	8008260-1 Inductor		1 each
	8008257-1 Transformer Logic Regulator, Power Converter		1 each
	8008257-2 Transformer Logic Regulator Power Converter		1 each
	8008258-1 Transformer Power Converter		1 each
	8008261-1 Inductor		1 each
35A	AVHRR/3 Sunshield S/N A301 and Higher	A/3.1.1	1/FM
36A	AVHRR/3 S/N A308	S/1.0	1 each
37A	Automatic Co Registration Equipment	S/8.2.1	1 each
38A	New Bench Check Unit - AVHRR	S/8.2.1	1 each
39A	New Bench Check Unit - HIRS	S/9.2.1	1 each
40A	Connector Savers for AVHRR/3 and HIRS/4 (one set per METOP instrument)	S/8.2.1 S/9.2.1	1 set per METOP instrument
41A	Black Target/AVHRR Ambient Visible Channel	S/8.2.1	1 each
42A	Vertical mounting support/AVHRR/3	S/8.2.1	1 each
43A	Vertical mounting support/HIRS/4	S/9.2.1	1 each
44A	Variable Height Dollies (2)	S/8.2.1 S/9.2.1	1 each with first METOP instrument

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## Supplies or Services and Prices/Costs

ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Specification Reference</u>	<u>Quantity</u>
Part B - Reviews and Meetings			
1B	AVHRR/3 Critical Design Review	A/10.1	1
2B	AVHRR/3 Pre-Environmental Review	A/10.1	1/FM
3B	AVHRR/3 Pre-Shipment Review	A/10.1	1/FM
4B	HIRS/3/4 Critical Design Review	H/9.1	1
5B	HIRS/3/4 Pre-Environmental Review	H/9.1	1/FM
6B	HIRS/3/4 Pre-Shipment Review	H/9.1	1/FM
7B	Quarterly Project Status Meeting	S/5.3.2	
8B	AVHRR/3 Delta Critical Design Rev.	A/10.1	1
9B	Deleted		
10B	Deleted		
11B	HIRS Delta Critical Design Review	H/9.1	1
12B	Deleted		
13B	Deleted		
14B	Deleted		

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## Supplies or Services and Prices/Costs

ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Specification Reference</u>	<u>Quantity</u>
Part C - Technical Documentation			
1C	Alignment and Calibration Book/AVHRR/3	A/11.4.4	Hardcopy 15/FM CD ROM 10/FM
			CCR 1830A MOD 198
2C	Alignment and Calibration Book/HIRS/3/4	H/10.4.3	Hardcopy 15/FM CD ROM 10/FM
			CCR 1830A MOD 198
3C	Test Reports/AVHRR/3	A/11.4.2	CD ROM 1/FM
			CCR 1830A MOD 198
4C	Test Reports/HIRS/3/4	H/10.4.2	CD ROM 1/FM
			CCR 1830A MOD 198
5C	Test Plans Updates/AVHRR/3	A/9.2.3.3.1	2 copies
6C	Test Plans Updates/HIRS/3/4	H/10.4.1	2 copies
7C	Test Procedure Updates/AVHRR/3	A/9.2.3.3.2	2 copies
8C	Test Procedure Updates/HIRS/3/4	H/13.1	2 copies
9C	Technical Description Document with Reduced Size Set of all Electrical and Selected Major Mechanical Drawings/AVHRR/3	A/11.2.1	30 copies
10C	Technical Description Document with Reduced Size Set of all Electrical and Selected Major Mechanical Drawings/HIRS/3/4	H/10.4.7	30 copies
11C	Specific Full Sized Drawings/AVHRR/3	A/11.4.6	As Required
12C	Specific Full Sized Drawings/HIRS/3/4	H/10.4.7.1	As Required



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## Supplies or Services and Prices/Costs

ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Specification Reference</u>	<u>Quantity</u>	
13C	Reduced-Sized Drawings/AVHRR/3	A/11.4.7	2 copies	
14C	Reduced-Sized Drawings/HIRS/3/4	H/10.4.7.2	2 copies	
15C	Pre-Ship Review Data Package/AVHRR/3 for each instrument	A/10.1	20 copies 1 CD ROM	CCR 1830A MOD 198
16C	Pre-Ship Review Data Package/HIRS/3/4 for each instrument	H/9.1	20 copies 1 CD ROM	CCR 1830A MOD 198
17C	Ground Support Equipment Instruction Manuals/AVHRR/3	A/11.3	5 copies	
18C	Ground Support Equipment Instruction Manuals/HIRS/3/4	H/10.3.1	5 copies	
19C	Photographs/AVHRR/3	A/11.4.8	6 sets	
20C	Photographs/HIRS/3/4	H/10.4.8	6 sets	
21C	Instrument Calibration Data on CD ROM for use by NOAA and Format of each instrument Description/AVHRR/3	A/9.1.2, A/9.1.3	10 CD ROM Combined with 1C	CCR 1830A MOD 198
22C	Instrument Calibration Data on CD ROM for use by NOAA and Format of each instrument Description/HIRS/3/4	H/10.4.4	10 CD ROM Combined with 2C	CCR 1830A MOD 198
23C	Optical Data in Graphical and CD ROM Form	H/10.4.5 A/11.4.4	10 CD ROM Combined with 2C	CCR 1830A MOD 198
24C	Combined AVHRR/3 and HIRS/3/4 Monthly Progress Report	S/5.2	Weekly	CCR 1933 MOD 245
25C	Quarterly Review Data Packages	S/5.3.2	12 copies	
26C	Deleted			
27C	AVHRR/3/Configured Article List	A/10.3.3	1 copy on CD ROM	CCR 1830A MOD 198

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Supplies or Services and Prices/Costs

ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item</u> <u>No.</u>	<u>Description</u>	<u>Specification</u> <u>Reference</u>	<u>Quantity</u>
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## Supplies or Services and Prices/Costs

ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

Item No.	Description		Specification Reference	Quantity
28C	HIRS/3/4/Configured Article List	H/12.3	1 copy on CD ROM	CCR 1830A MOD 198
29C	AVHRR/3/Drawing Tree	A/10.3.3	1 copy	
30C	HIRS/3/4/Drawing Tree	H/12.3	1 copy	
31C	3AVHRR/3 Configuration Changes Class I	A/10.3.3	3 copies	
32C	3HIRS/3/4 Configuration Changes Class I	H/12.3	3 copies	
33C	AVHRR/3 Configuration Changes Class II	A/10.3.3	1 copy	
34C	HIRS/3/4 Configuration Changes Class II	H/12.3	1 copy	
35C	Deleted			
36C	3AVHRR/3 Indentured Drawing List	A/10.3.3	1 copy on CD ROM	CCR 1830A MOD 198
37C	HIRS/3/4 Indentured Drawing List	H/12.3	1 copy on CD ROM	CCR 1830A MOD 198
38C	Deleted			
39C	AVHRR/3/Engineering Test Rpts.	A/11.4.3	1 CD ROM	CCR 1830A MOD 198
40C	HIRS/3/4/Engineering Test Rpts.	H/10.4.2.2	1 CD ROM	CCR 1830A MOD 198
41C	AVHRR/3/Instrument Magnetic Field Letter Report	A/5.17.1	3 copies	
42C	HIRS/3/4/Instrument Magnetic Field Letter Report	H/6.1.8	3 copies	
43C	Deleted			
44C	Deleted			
45C	AVHRR/3 Thermal Analysis	A/8.1.3	4 copies	
46C	HIRS/3/4 Thermal Analysis	H/8.3.4	4 copies	

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## Supplies or Services and Prices/Costs

ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Specification Reference</u>	<u>Quantity</u>
47C	AVHRR/3 Instrument Calibration Software and Documentation	A/9.1.5	2 copies
48C	HIRS/3/4 Instrument Calibration Software and Documentation	H/13.1.5	2 copies
49C	Deleted		
50C	Deleted		
51C	Deleted		
52C	Deleted		
53C	Deleted		
54C	Deleted		
55C	Deleted		
56C	Deleted		
57C	Deleted		
58C	Deleted		
59C	Deleted		
60C	Deleted		
61C	Deleted		
62C	Deleted		
63C	Deleted		
64C	Deleted		
65C	Deleted		
66C	Ground Support Equipment	A/11.3	6 Copies
	Instruction Manuals/AVHRR/3	Metop	6 Copies
67C	Ground Support Equipment	H/10.3.1	6 Copies
	Instruction Manuals/HIRS	Metop	6 Copies

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## Supplies or Services and Prices/Costs

ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Specification Reference</u>	<u>Quantity</u>
68C	Deleted		
69C	Deleted		
70C	Deleted		
71C	Deleted		
72C	Deleted		
73C	Deleted		
74C	Deleted		
75C	Deleted		
76C	Deleted		
77C	Deleted		
78C	Deleted		
79C	Deleted		
80C	Deleted		
81C	Deleted		
82C	Deleted		
83C	Deleted		
84C	Deleted		
85C	Deleted		
86C	Deleted		
87C	Deleted		
88C	Deleted		
89C	Deleted		
90C	Reserved		

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## Supplies or Services and Prices/Costs

ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Specification Reference</u>	<u>Quantity</u>
91C	Reserved		
92C	AVHRR/3/Thermal Analysis	A/8.1.3	4 Copies
93C	HIRS Thermal Analysis	H/8.3.4	4 Copies
94C	Deleted		
95C	Deleted		
96C	Deleted		
97C	The following items (a through d) shall be submitted (A)		7
	a. Procedure for control of unscheduled activities during integration and verification testing	P/3.2.3.1	
	b. Contractor's derating policy	P/5.2 3	
	c. Software Assurance Program Plan	P/10.1	
98C	Previously designed, fabricated, or flown hardware data	P/1.13	
	a. Update (A)		6
99C	POES Flight Assurance Review Data Package (I)	P/2.2	20
100C	Verification Plan	P/3.2.1	
	a. Initial (A)		5
	b. Baseline (A)		5
	c. Update (A)		5
101C	Verification Specification	P/3.2.2	
	a. Baseline (A)		5
	b. Update (A)		5

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## Supplies or Services and Prices/Costs

ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Specification Reference</u>	<u>Quantity</u>
102C	Verification Procedures (R)	P/3.2.3	5
103C	Verification Reports (I)	P/3.2.4	5
104C	Operations Hazard Analyses (R)	P/4.3.2	5
105C	Waivers (A)	P/4.5	5
106C	Safety Data Package (A)	P/4.6	5
107C	Parts Control Plan (A)	P/5.1	5
108C	Parts Identification List (I)	P/5.3.2	5
109C	Data on cured, out-of-date materials and Application of Materials (A)	P/6.2.6 P/6.4.a	5
110C	Performance Assurance Status Report (I)	P/1.6	----
111C	Engineering Drawings (I)	P/6.4.b	5
112C	Materials List (in-organic and poly- meric) lubrication list, processes list	P/6.4.c, d, e, f	
	a. Final Flight Assurance CDR (A)		5
	b. Updates (A)		5
113C	Failure Mode, Effects and Criticality Analyses and Critical Parts List	P/7.3.1	
	a. Final (R)		5
	b. Updates (R)		5
114C	Parts Stress Analyses	P/7.3.2	
	a. Final (R)		5
115C	Trend Analyses	P/7.3.4	
	a. List of parameters to be monitored (I)		5
	b. Trend Analysis (I)		5

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## Supplies or Services and Prices/Costs

ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Specification Reference</u>	<u>Quantity</u>	
116C	Limited-Life List	P/7.4		
	a. Final (R)		5	
	b. Updates (R)		5	
117C	Fabrication and Assembly Flow Plan (R)	P/8.10.1	5	
118C	Electrostatic Discharge Control Plan (A)	P/8.12	5	
119C	MRB Decisions on Nonconformances (I)	P/8.13.1.3	5	
120C	Request for Repair/Use-as-is (A)	P/8.13.1.3.c	5	
121C	Standard Repair Procedures (A)	P/8.13.1.3.c.1	5	
122C	Malfunction/Failure Reporting (A)	P/8.13.2.1	5	
	a. Notification (I)		Orally within 24hrs	
	b. Written Notification (MR Form) (I)		1	
	c. Malfunction/Failure Report Close-out(A)P/8.13.2.2 Non-Flight Malfunction Report Close-out (I)		1	
123C	Response to Alerts (R)	P/8.14	5	
124C	Alerts (I)	P/8.14	5	
125C	Procedures for Product Handling	P/8.21		
	a. Preliminary (I)		5	
	b. Final (A)		5	
126C	Acceptance Data Package for each end-item comprising (R)	P/8.23	1 copy on CD ROM	CCR 1830A MOD 198
	a. As-built configuration List in accordance with paragraph 8.16			
	b. List of parts used in the hardware, prepared in accordance with paragraph 5.3.2			



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ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Specification Reference</u>	<u>Quantity</u>
	c. List of materials and processes that were used in the hardware		
	d. Test Log Book, including total operating time and cycle records		
	e. List of open items with reasons for items being open		
	f. Safety Compliance Data Package		
	g. Listing and status of all identified life-limited items		
	h. Critical parameters trend data		
	i. Results of the final comprehensive performance test		
127C	Contamination Control Plan:	P/9.2	
	a. Final (A)		5
A/	= AVHRR/3	GSFC Specification S-480-81	
H/	= HIRS/3/4	GSFC Specification S-480-82	
S/	= SOW	GSFC Specifications dated 5/28/96	
P/	= PAR	GSFC Specifications S-480-29.1	

## Part D - Administrative Documentation

<u>Item No.</u>	<u>Description</u>	<u>Reference to SOW/Contract</u>
1D	Material Inspection and Receiving Report (DD Form 250)	Article E-2
2D	Reports of Reportable Items and Disclosure of Inventions, Interim Reports, Final Reports, etc.	Article G-4

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## Supplies or Services and Prices/Costs

ARTICLE B-1--DELIVERABLE ITEMS (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Reference to SOW/Contract</u>
3D	Updated WBS Diagram and Supporting Summary Task Description	Article H-2
4D	Financial Reporting of Government-Owned/Contractor Held Property	Article I-11
5D	Reporting of Centrally Reportable Equipment (DD Form 1419)	Article H-8
6D	Financial Management Reports (NASA Forms 533M and 533Q)	Article H-9 and Article I-8
7D	Subcontracting Reports	Article H-10
8D	Reports on NASA Subcontracts	Article I-7
9D	Insurance Notification	Article H-6